

SEMICONDUCTOR LASER

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Abstract

PURPOSE:To surely obtain the monitor current by a method wherein a photoelectric conversion element is irradiated with parts of the forward outgoing light of a laser element by a half mirror.

CONSTITUTION:A heat-radiating block 5 is installed on a metal stem 4 having lead wires 1-3; a semiconductor laser element 6 and a photoelectric conversion element 7 are adhered to the heat-radiating block 5; and the semiconductor laser is sealed by covering with a metal container 11 having a glass plate 10. Moreover, a half mirror 12 is provided between the laser element 6 and the glass plate 10, both of which are in the metal container 11. The outgoing light of the laser element 6 is outputted through the half mirror 12 and the glass plate 10, and at the same time, parts of the outgoing light are reflected by the half mirror 12 and are incided in the photoelectric conversion element 6. By such a way, the monitor current can be surely obtained.

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